

Figure 1A

ClustalW DNA Sequence Alignment of *sasp-B* Amplicons
from 38 *Bacillus anthracis* Strains

	1	15	16	30	31	45	46	60	61	75	76	90
1 Bapast	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
2 Bare1	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
3 NMRI#67	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
4 NMRI#63	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
5 NMRI#62	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
6 NMRI#60	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
7 NMRI#1	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
8 NMRI#2	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
9 NMRI#4	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
10 NMRI#5	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
11 NMRI#6	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
12 NMRI#10	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
13 NMRI#11	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
14 NMRI#18	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
15 NMRI#19	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
16 NMRI#20	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
17 NMRI#22	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
18 NMRI#23	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
19 NMRI#24	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
20 NMRI#25	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
21 NMRI#26	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
22 NMRI#28	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
23 NMRI#32	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
24 NMRI#35	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
25 NMRI#36	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
26 NMRI#38	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
27 NMRI#39	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
28 NMRI#40	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
29 NMRI#41	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
30 NMRI#42	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
31 NMRI#43	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
32 NMRI#50	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
33 NMRI#52	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
34 NMRI#53	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
35 NMRI#54	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
36 NMRI#55	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
37 NMRI#56	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						
38 NMRI#59	AACAAGGCAACTTCT	GGTGCTAGCATTC	AAAGCACAATGCTAGT	TATGGTACAGAGT	TTGCGACTGAAACAAAT	GTACAAAGCAGTAAAA						

Figure 1B

ClustalW DNA Sequence Alignment of *sasp-B* Amplicons
from 38 *Bacillus anthracis* Strains

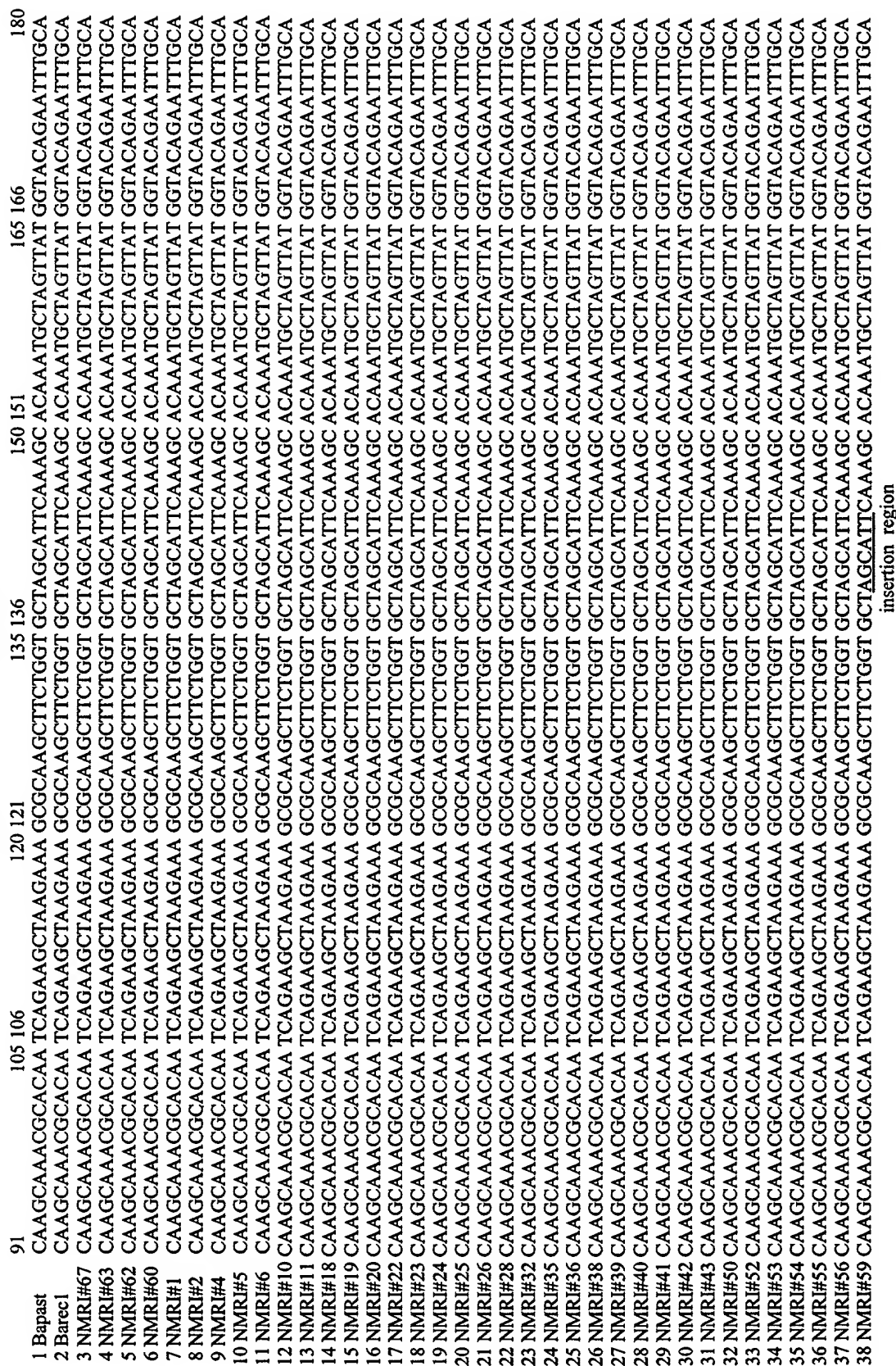


Figure 1C

ClustalW DNA Sequence Alignment of *sasp-B* Amplicons
from 38 *Bacillus anthracis* Strains

	181	195	196	210	211	225	226	240	
1 Bapst	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 13)
2 Bare1	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 14)
3 NMRI#67	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 15)
4 NMRI#63	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 16)
5 NMRI#62	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 17)
6 NMRI#60	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 18)
7 NMRI#1	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 19)
8 NMRI#2	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 20)
9 NMRI#4	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 21)
10 NMRI#5	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 22)
11 NMRI#6	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 23)
12 NMRI#10	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 24)
13 NMRI#11	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 25)
14 NMRI#18	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 26)
15 NMRI#19	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 27)
16 NMRI#20	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 28)
17 NMRI#22	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 29)
18 NMRI#23	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 30)
19 NMRI#24	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 31)
20 NMRI#25	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 32)
21 NMRI#26	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 33)
22 NMRI#28	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 34)
23 NMRI#32	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 35)
24 NMRI#35	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 36)
25 NMRI#36	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 37)
26 NMRI#38	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 38)
27 NMRI#39	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 39)
28 NMRI#40	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 40)
29 NMRI#41	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 41)
30 NMRI#42	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 42)
31 NMRI#43	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 43)
32 NMRI#50	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 44)
33 NMRI#52	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 45)
34 NMRI#53	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 46)
35 NMRI#54	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 47)
36 NMRI#55	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 47)
37 NMRI#56	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 49)
38 NMRI#59	ACTGAAACAGACG	TG	CATGCTGTG	AAAAAA	CAAAATGC	ACAATCA	GCTGCAAA	AAACAA	(SEQ ID NO: 50)

Figure 2A

Drawing ClustalW Global *sasp-B* DNA Sequence Alignment of *Bacillus anthracis*,
Bacillus thuringiensis and *Bacillus cereus* Strains

	1	15 16	30 31	45 46	60 61	75 76	90
1 NMRI#15	AACAAGGCAACTTCT	GGCGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
2 1B	AACAAGGCAACTTCT	GGCGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
3 003	AACAAGGCAACTTCT	GGCGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
4 III	AACAAGGCAACTTCT	GGCGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
5 IV	AACAAGGCAACTTCT	GGCGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
6 BtB	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
7 BtY	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
8 4A1	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
9 BtV	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
10 BtZ	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
11 Beer3	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
12 1B/A	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
13 Beerpub	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
14 BtI	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
15 BtU	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
16 BtS	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
17 BtR	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
18 BtL	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
19 BtO	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
20 BtJ	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
21 4J2	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
22 BtG	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
23 BtI	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
24 Beer2	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
25 BtC	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
26 BtE2	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
27 BtE4	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
28 BtK	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
29 BtM	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
30 BtN	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
31 BtP	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
32 BtX	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
33 Beer1	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
34 BtQ	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
35 BtW	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
36 Bc #57	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	
37 Ba #11	AACAAGGCAACTTCT	GGTGTAGCATTCAA	AGTACAAATGCTAGT	TATGGTACAGAGTTT	TCAACTGAAACAGAT	GTGCAAGCAGTAAAA	

Figure 2B

Drawing ClustalW Global *sas*-B DNA Sequence Alignment of *Bacillus anthracis*,
Bacillus thuringiensis and *Bacillus cereus* Strains

	91	105 106	120 121	135 136	150 151	165 166	180
1 NMRI#15	CAAGCAAATGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
2 1B	CAAGCAAATGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
3 003	CAAGCAAATGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
4 III	CAAGCAAATGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
5 IV	CAAGCAAATGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
6 BtB	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
7 BtY	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
8 4A1	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
9 BtV	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
10 BZ	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
11 Beer3	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
12 1B/A	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
13 Beerpub	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
14 BtT	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
15 BtU	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
16 BtS	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
17 BtR	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
18 BtL	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
19 BtO	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
20 BtJ	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
21 4J2	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
22 BtG	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
23 BtI	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
24 Beer2	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
25 BtC	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
26 BtE2	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
27 BtE4	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
28 BtK	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
29 BtM	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
30 BtN	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
31 BtP	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
32 BtX	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
33 Beer1	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
34 BtQ	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
35 BtW	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
36 NMRI#57	CAAGCAAACGCACAA	TCAGAAAGCAAAGAAA	GCACAAGCTTCTGGT	GCA	-----	CAAAGT	GCAAAACGCTAGTTAT
37 NMRI#11	CAAGCAAACGCACAA	TCAGAAAGCTAAGAAA	GGCAAGCTTCTGGT	GCTAGCATTC	CAAAAGC	ACAAATGCTAGTTAT	GGTACAGAAATTGCA

Figure 2C

Drawing ClustalW Global *sasp-B* DNA Sequence Alignment of *Bacillus anthracis*,
Bacillus thuringiensis and *Bacillus cereus* Strains

	181	195 196	210 211	225 226	240
1 NMRI#15	ACTGAAACAGATGTG	CATGCTGTGAAAAA	CAAAATGCACAAATCA	GCTGCAAAACAA	(SEQ ID NO: 51)
2 1B	ACTGAAACAGATGTG	CATGCTGTGAAAAA	CAAAATGCACAAATCA	GCTGCAAAACAA	(SEQ ID NO: 52)
3 003	ACTGAAACAGATGTG	CATGCTGTGAAAAA	CAAAATGCACAAATCA	GCTGCAAAACAA	(SEQ ID NO: 53)
4 III	ACTGAAACAGATGTG	CATGCTGTGAAAAA	CAAAATGCACAAATCA	GCTGCAAAACAA	(SEQ ID NO: 54)
5 IV	ACTGAAACAGATGTG	CATGCTGTGAAAAA	CAAAATGCACAAATCA	GCTGCAAAACAA	(SEQ ID NO: 55)
6 BtB	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGCACAAATCA	GCTGCAAAACAA	(SEQ ID NO: 56)
7 BtY	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGCACAAATCA	GCTGCAAAACAA	(SEQ ID NO: 57)
8 4A1	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 58)
9 BtV	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 59)
10 BtZ	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 60)
11 Beer3	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 61)
12 1B/A	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 62)
13 Beerpub	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 63)
14 BtI	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 64)
15 BtU	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 65)
16 BtS	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 66)
17 BtR	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 67)
18 BtL	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 68)
19 BtO	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 69)
20 BtJ	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 70)
21 4J2	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 71)
22 BtG	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 72)
23 BtI	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 73)
24 Beer2	ACTGAAACAGACGTG	CATTCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 74)
25 BtC	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 75)
26 BtE2	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 76)
27 BtE4	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 77)
28 BtK	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 78)
29 BtM	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 79)
30 BtN	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 80)
31 BtP	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 81)
32 BtX	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 82)
33 Beer1	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 83)
34 BtQ	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 84)
35 BtW	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 85)
36 NMRI#57	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGTCTAAGTCA	GCTGCAAAACAA	(SEQ ID NO: 86)
37 NMRI#11	ACTGAAACAGACGTG	CATGCTGTGAAAAA	CAAAATGCACAAATCA	GCTGCAAAACAA	(SEQ ID NO: 87)

Figure 3 *Bacillus globigii* specific PCR targeting Bg sasp-gamma

Alignment of *B. subtilis* sasp-gamma sequence (from GeneBank) with *B. globigii* sequence (upper strand) showing the location of the primer sequences and how their sequence compares to the (known) *B. subtilis* sequence:

